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Effective access to large audiovisual assets based on user preferences

S. Ioannou, G. Moschovitis, K. Ntalianis, K. Karpouzis, S. Kollias November 2000 Proceedings of the 2000 ACM workshops on Multimedia

Full text available: pdf(1.01 MB)

Additional Information: full citation, abstract, references, index terms

Current multimedia databases contain a wealth of information in the form of audiovisual, as well as text data. Even though efficient search algorithms have been developed for either media, there still exists the need for abstract presentation and summarization of the results of database users' queries. Moreover, multimedia retrieval systems should be capable of providing the user with additional information related to the specific subject of the query, as well as suggest other topics which us ...

Keywords: multimedia databases, query expansion, text-based search, user profiling, web access

Dynamic video summarization and visualization

Jeho Nam, Ahmed H. Tewfik

October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 2)

Full text available: pdf(694.81 KB) Additional Information: full citation, references, citings, index terms

An intelligent media browser using automatic multimodal analysis Jonathan Foote, John Boreczhy, Andreas Girgensohn, Lynn Wilcox

September 1998 Proceedings of the sixth ACM international conference on Multimedia

Full text available: pdf(605.45 KB) Additional Information: full citation, references, citings, index terms

Keywords: automatic analysis, content-based retrieval, skimming, spacker identification, video, visualization

Hypertext-assisted video indexing and content-based retrieval Horace Ho-Shing Ip, Siu-Lok Chan



April 1997 Proceedings of the eighth ACM conference on Hypertext

Full text available: Podf(209.23 KB) Additional Information: full citation, references, citings, index terms

Keywords: content-based retrieval, educational video system, video indexing, video segmentation

Video parsing, retrieval and browsing: an integrated and content-based solution H. J. Zhang, C. Y. Low, S. W. Smoliar, J. H. Wu January 1995 Proceedings of the third ACM international conference on Multimedia

Full text available: 1 htm(51.17 KB) Additional Information: full citation, references, citings, index terms

Keywords: database, multimedia, video browsing, video indexing, video parsing, video retrieval

6 Designing multimedia: Dynamic key frame presentation techniques for augmenting video browsing

Tony Tse, Gary Marchionini, Wei Ding, Laura Slaughter, Anita Komlodi May 1998 Proceedings of the working conference on Advanced visual interfaces

Full text available: pdf(1.50 MB) Additional Information: full citation, abstract, references, citings

Because of unique temporal and spatial properties of video data, different techniques for summarizing videos have been proposed. Key frames extracted directly from video inform users about content without requiring them to view the entire video. As part of ongoing work to develop video browsing interfaces, several interface displays based on key frames were investigated. Variations on dynamic key frame "slide shows" were examined and compared to a static key frame "filmstrip" display. The slide ...

Keywords: display rate, divided attention, dynamic displays, interface design, key frames, representations, video browsing

7 Modeling one- and two-layer variable bit rate video

Kavitha Chandra, Amy R. Reibman

June 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 3

Full text available: (S) pdf(265,12 KB) Additional Information: full citation, references, citings, index terms

Keywords: MPEG2, VBR video, multiplexing, traffic model, two-layer

VideoQ: an automated content based video search system using visual cues Shih-Fu Chang, William Chen, Horace J. Meng, Hari Sundaram, Di Zhong November 1997 Proceedings of the fifth ACM international conference on Multimedia

Full text available: pdf(1.67 MB) Additional Information: full cliation, references, clings, index terms

Abstracting home video automatically

9

Rainer Lienhart

October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 2)

Full text available: (258.77 KB) Additional Information: (all citation, references, citings, index terms

Keywords: audio content analysis, shot clustering, text recognition, text segmentation, video abstracting, video content analysis

10 <u>Topic labeling of broadcast news stories in the informedia digital video library</u> Alexander G. Hauptmann, Danny Lee

May 1998 Proceedings of the third ACM conference on Digital libraries

Full text available: pdf(266,27 KB) Additional Information: full citation, references, citings, index terms

11 Interactive tools for constructing and browsing structures for movie films
Riad Hammoud, Roger Mohr

October 2000 Proceedings of the eighth ACM international conference on Multimedia

Full text available: xxi(273.66 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a prototype for constructing, browsing and using structures for movie films based on content image analysis only. The goal of the structuring is to facilitate the user's access to the video content (non-linear navigation, etc.). Our prototype provides for the "editor user" advanced tools for structuring the video at its low-level (e.g. shots, keyframes) and high-level structures (e.g. groups of objects, scenes). Also, it provides for the "end user&rdqu ...

Keywords: groups/scenes, interactive videos, video structuring

12 The CHI '95 conference electronic publication: introduction to an experiment Robert Mack, Linn Marks, Dave Collins, Keith Instone April 1996 ACM SIGCHI Bulletin, Volume 28 Issue 2

Full text available: pdf(1.57 MB) Additional Information: full citation, index terms

13 <u>VideoTrails: representing and visualizing structure in video sequences</u>
Vikrant Kobla, David Doermann, Christos Faloutsos

November 1997 Proceedings of the fifth ACM international conference on Multimedia

Full text available: Additional Information: full citation, references, citings, index terms

14 HyPursuit: a hierarchical network search engine that exploits content-link hypertext clustering

Ron Weiss, Bienvenido Vélez, Mark A. Sheldon

March 1996 Proceedings of the the seventh ACM conference on Hypertext

Full text available: pdf(2.00 MB) Additional Information: full citation, references, citings, index terms

Cumulating and sharing end users knowledge to improve video indexing in a video digital library



Marc Nanard, Jocelyne Nanard

January 2001 Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries

Full text available: pdf(250.01 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper, we focus on a user driven approach to improve video ind exing. It consists in cumulating the large amount of small, individual efforts done by the users who access information, and to provide a community management mechanism to let users share the elicited knowledge. This technique is currently being developed in the "OPALES" environment and tuned up at the "Institut National de l'Audiovisuel&r dquo; (INA), a National Video Library in Paris, to increase the v ...

Keywords: knowledge sharing, private workspaces, users communities, video annotation, video indexing

16 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 2

Full text available: pdf(213.89 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

17 Experiments with digital video playback

Richard Gerber, Ladan Gharai

May 1996 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1996 ACM SIGMETRICS international conference on Measurement and modeling of computer systems, Volume 24 Issue 1

Full text available: pdf(1.25 MB)

Additional Information: full citation, abstract, references, index terms

In this paper we describe our experiments on digital video applications, concentrating on the static and dynamic tradeoffs involved in video playback. Our results were extracted from a controlled series of 272 tests, which we ran in three stages. In the first stage of 120 tests, we used a simple player-monitor tool to evaluate the effects of various static parameters: compression type, frame size, digitized rate, spatial quality and keyframe distribution. The tests were carried out ...

18 Video abstracting

Rainer Lienhart, Silvia Pfeiffer, Wolfgang Effelsberg December 1997 Communications of the ACM, Volume 40 Issue 12

Full text available: pdf(2.51 MB)

Additional Information: full citation, references, citings, index terms

19 Fast detection of communication patterns in distributed executions



Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

20 Video summarization by curve simplification

Daniel DeMenthon, Vikrant Kobla, David Doermann

September 1998 Proceedings of the sixth ACM international conference on Multimedia

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1 On CDMA with space-time codes over multipath fading channels

Damen, M.O.; Safavi, A.; Abed-Meraim, K.;

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Pages:11 - 19

[Abstract] [PDF Full-Text (748 KB)] **IEEE JNL**

2 Blind adaptive reduced-rank detection for DS-CDMA signals in multipath channels

Yu Song; Roy, S.;

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3 Combining static and dynamic features using neural networks and edge fusion for video object extraction

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[Abstract] [PDF Full-Text (911 KB)]

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Yihong Gong; Xin Liu;

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Yihong Gong; Xin Liu;

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6 Probabilistic space-time video modeling via piecewise GMM

Greenspan, H.; Goldberger, J.; Mayer, A.;

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Martone, M.;

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